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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,818	01/21/2005	Koji Yamada	12065-0020	2397
22902 CLARK & BR	7590 08/13/2007 ODY	EXAMINER		
1090 VERMONT AVENUE, NW			MCNELIS, KATHLEEN A	
SUITE 250 WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
	•		1742	
			MAIL DATE	DELIVERY MODE
			08/13/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

*	Y					
	. Application No.	Applicant(s)				
	10/521,818	YAMADA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kathleen A. McNelis	1742				
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RI WHICHEVER IS LONGER, FROM THE MAILIN  - Extensions of time may be available under the provisions of 37 CI after SIX (6) MONTHS from the mailing date of this communicatio  - If NO period for reply is specified above, the maximum statutory p  - Failure to reply within the set or extended period for reply will, by s Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC FR 1.136(a). In no event, however, may a ron. eriod will apply and will expire SIX (6) MON statute, cause the application to become AB	CATION.  eply be timely filed  THS from the mailing date of this communication.  EANDONED (35 U.S.C. § 133).				
Status						
	Responsive to communication(s) filed on 21 January 2005.					
	,—					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice und	der <i>Ex paπe Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.	•					
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-7</u> are subject to restriction and/	or election requirement.	•				
Application Papers						
9)☐ The specification is objected to by the Exa	miner.					
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the co	•					
11)☐ The oath or declaration is objected to by the	ne Examiner. Note the attached	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:	reign priority under 35 U.S.C. §	3 119(a)-(d) or (f).				
<ol> <li>Certified copies of the priority docur</li> </ol>	ments have been received					
2. Certified copies of the priority docur	ments have been received in A	pplication No				
<ol><li>Copies of the certified copies of the</li></ol>	•	received in this National Stage				
application from the International Bu						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-94)</li> <li>3) Information Disclosure Statement(s) (PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ul>		s)/Mail Date nformal Patent Application 				

Art Unit: 1742

## **Claims Status**

Claims 1-7 are presented for examination.

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-4, drawn to a method for recovering platinum group elements comprising charging a platinum group element containing material along with copper oxide and optionally a reducing agent (claim 4) into an electric arc furnace and melting below a slag layer.

Group II, claim(s) 5-7, drawn to an apparatus comprising a furnace, material charging port and body, fluid discharge ports and electrodes where the charged material comprises at least one of a platinum group element, copper oxide, solid reducing agent and flux.

Groups I and II have in common charging and melting at least one of a platinum group element containing material along with copper oxide and optionally a reducing agent in a furnace. This feature is known in the prior art as evidenced by Ward (U.S. Pat. No. 4,870,655). Ward a method for recovering precious metals including platinum, palladium and rhodium (i.e. platinum group metals) from catalysts in a furnace (col. 1 lines 11-20) where the furnace is an electric arc furnace with floating slag phase (col. 2 lines 48-59) and coke (i.e. a solid reducing agent) is optionally charged (col. 6 lines 41-68).

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2 they lack the same or corresponding special technical feature, since the features that the independent claims have in common is known in the

Art Unit: 1742

art. Groups I and II are therefore not so linked as to form a single general inventive concept under PCT Rule 13.1.

Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:

- (a) the inventions have acquired a separate status in the art in view of their different classification;
- (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;
- (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
- (d) the prior art applicable to one invention would not likely be applicable to another invention;
- (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered

Art Unit: 1742

timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kathleen A. McNelis whose telephone number is 571 272 3554. The examiner can normally be reached on M-F 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/521,818

Art Unit: 1742

Page 5

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KAM 08/07/2007

HOY KING
SUPERVISORY PATENT EXAMINER